

Figure 1

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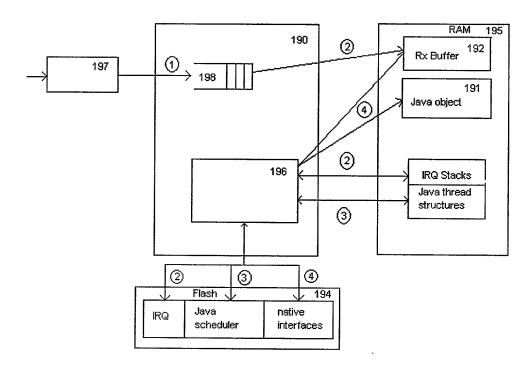


Figure 2

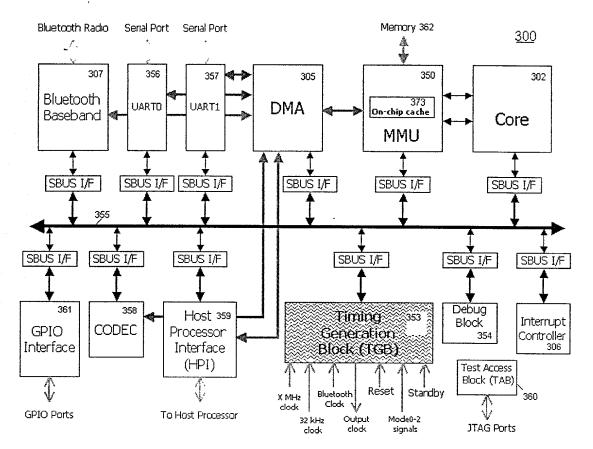


Figure 3a

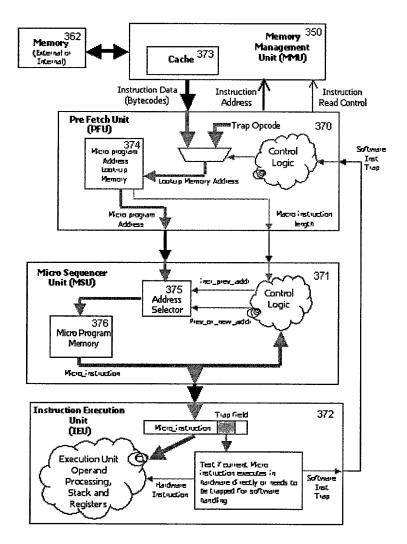


Figure 3b

## Upon a trapped instruction which is not directly executed in hardware:

- Current Opcode is loaded into a register used to handle vector table bases (in IEU)
- 2) Some registers are swapped
- 3) Some registers are pushed onto the stack
- Software execution transfers via the vector table setting
- Current opcode is translated via software into a sequence of opcodes that can be executed directly in hardware
- This opcode sequence is then executed in place of the current opcode

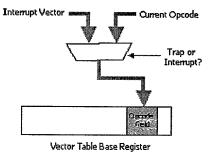


Figure 3c

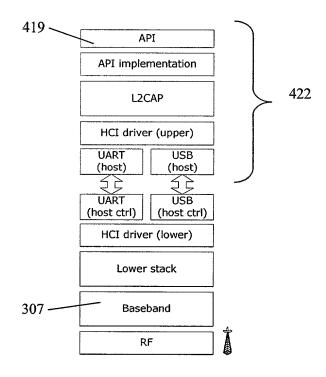


Figure 4

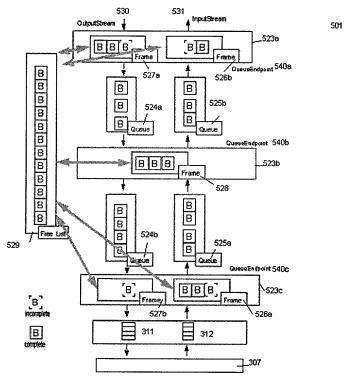


Figure 5



Figure 6a

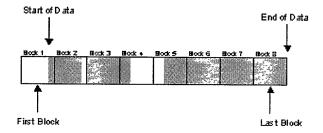


Figure 6b

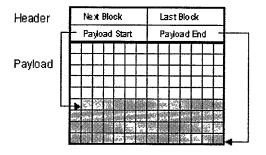


Figure 6c

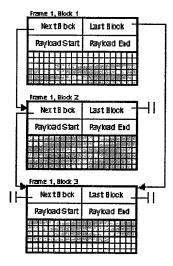


Figure 6d

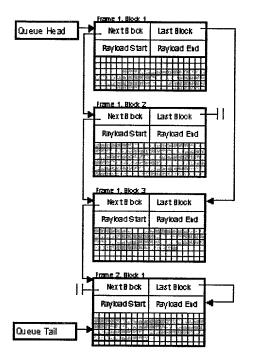


Figure 6e

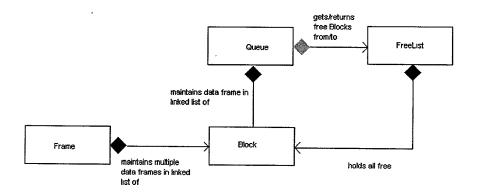


Figure 7a

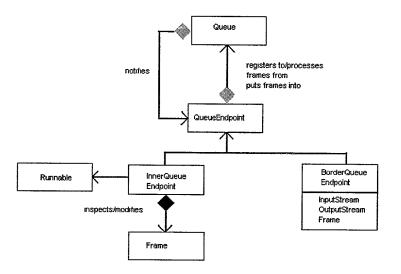


Figure 7b

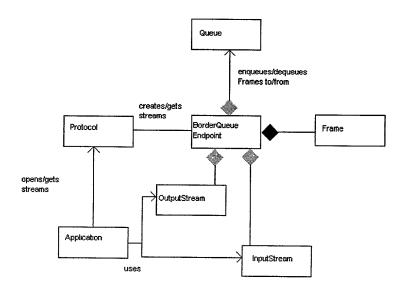


Figure 7c

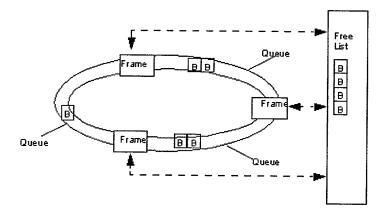


Figure 8

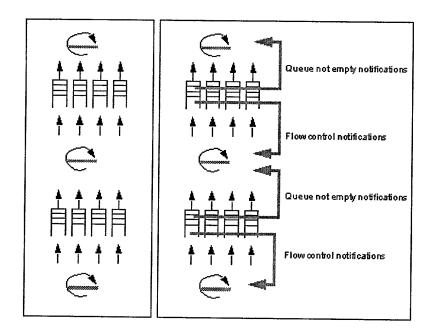


Figure 9

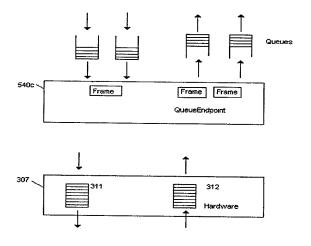
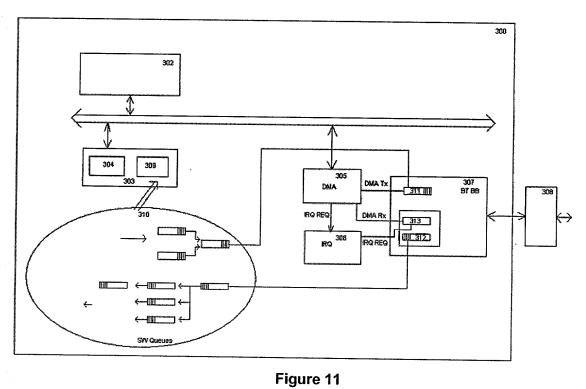


Figure 10



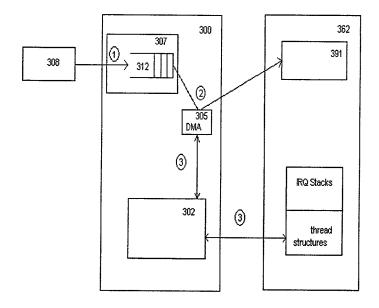


Figure 12

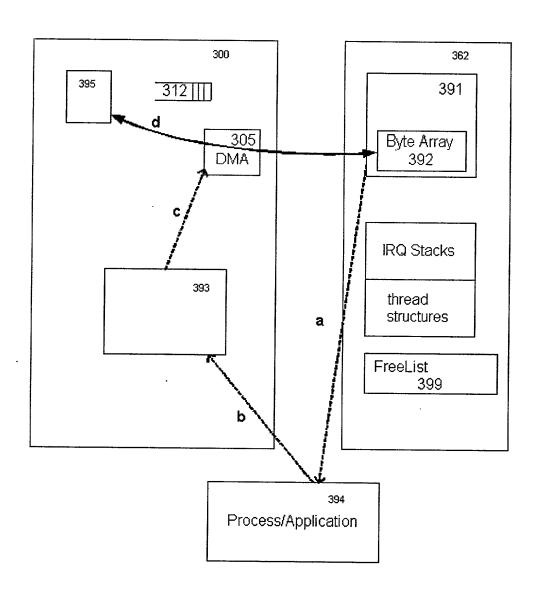


Figure 13